RAM Table Definitions - 10/1/97

Task_Queue: Used to set up starting queues for the day at specific task locations.

start_tms	smallint	Time when process quantity enters the task location.
location_task_id (FK)	int	Task id
process_qty	int	Queue amount

Task_Flow: Used to set up the flow pattern of work through the pharmacy.

to_task_id (FK)	int	Task where work flows to
from_task_id (FK)	int	Task where work flows from
allocation_pct	real	Percentage of work that flow from 'from_task_id' to 'to_task_id'
conversion_value	real	Conversion value of unit of measure from 'from_task_id' to 'to_task_id'

Location_Task: Definition of a task for a specific pharmacy. It includes default throughput rates, capacity, and the min/max time constraints for working in the task.

location_task_id	int	Location Task identifier.
location_nbr (FK)	char(2)	Location identifier. Used to identify the pharmacy
task_id (FK)	int	Task id
hourly_rate	smallint	Default hourly throughput rate for task
max_resource_qty	smallint	Maximum number of people (resources) that can perform a task during a time period
color_cde	char(10)	Gantt chart color for task
min_time_msr	smallint	Minimum time that must be spent in a task
max_time_msr	smallint	Maximum time that can be spent in a task
sequence_number	smallint	Pert chart sequence number

Task: Used to store unit of measure for a task.

task_id	int	Task id
unit_cde	char(2)	ID for unit of measure for task
dsc	char(20)	Task description

Unit_of_Work: Used to store the description of the unit of work.

unit_cde	char(2)	ID for unit of measure
dsc	char(20)	Description of unit of measure

Task_Duration: Stores the time a task must start and/or stop on a certain day. For example, NDP can not start Doctor Calls until 12:00 pm local time.

day_cde	char(1)	Day of week code
start_tim	smallint	Time of day the task can start
location_task_id (FK)	int	Location Task identifier
end_tim	smallint	Time of day a task must end

Day_of_Week: Stores the 7 day codes for Monday - Sunday.

day_cde	char(1)	Day of week code
nme	char(8)	Day of week name

Location_Shift: Defines the shifts for a specific pharmacy.

shift_id	int	Shift ID
dsc	char(10)	Shift name
location_nbr (FK)	char(2)	Location identifier. Used to identify the pharmacy
start_tim	smallint	Start time of the shift
end_tim	smallint	End time of the shift
type_code	char(2)	Specifies if shift is productive or non productive time

Location_Shift_Break: Defines the shifts breaks for a specific pharmacy.

shift_id (FK)	int	Shift ID
start_tim	smallint	Start time of the break
end_tim	smallint	End time of the break
break_type	char(2)	Type of break (i.e. lunch, break1, break2)

Resource_Shift: Defines the shift a resource is assigned to for a particular day.

resource_id (FK)	int	Resource (person, machine) ID
day_cde	char(1)	Day of week code
shift_id (FK)	smallint	Shift ID

Location: Used to identify a pharmacy.

location_nbr	char(2)	Location identifier. Used to identify the pharmacy
nme	char(20)	Location name

Resource_Type_Task: Used to list the tasks a resource type can do. For example, Clerical can work in mail, safe, manifesting, etc.

resource_type_code	int	Type of resource
location_task_id (FK)	int	Location Task identifier

Resource_Type: Defines the resource type (i.e. Pharmacist, Clerical, Technician)

resource_type_code	int	Code for type of resource
dsc	char(20)	Description of resource type
category_code	char(2)	Specifies if resource is a person or machine

Resource_Type_Cost: Defines the resource cost per hour for each resource type

resource_type_code(FK)	int	Code for type of resource
location_nbr	char(2)	Location identifier. Used to identify the pharmacy
cost	real	hourly cost

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Resource_Task: A list of the throughput rates for a specific resource in a specific task. For example, John's throughput for mail is 100 units per hour.

resource_id (FK)	int	Resource (person, machine) ID
location_task_id (FK)	int	Location Task identifier
hourly_rate	real	Throughput of resource for a task

Resource_Task_Availability: A list of task an individual can be assigned to for a specific day. For example, John can do mail, and safe on Monday and mail, checking, and manifesting on Tuesday.

resource_id (FK)	int	Resource (person, machine) ID
location_task_id (FK)	int	Location Task identifier
day_cde	char(1)	Day of week code

Resource: Description of the resource.

resource_id	int	Resource (person, machine) ID
location_nbr (FK)	char(2)	Location identifier. Used to identify the pharmacy
resource_type_code (FK)	int	Code for type of resource (i.e. Pharmacist, Clerical, Technician)
first_nme	char(20)	First name of resource
last_nme	char(25)	Last name of resource
status_cde	char(2)	Status code of resource
status_dte	smalldatetime	Effective date of status code

Resource_Id: A list of ID's that can be associated to a resource.

resource_id (FK)	int	Resource (person, machine) ID
id_type_cde (FK)	char(2)	ID type (i.e. WN, RF, SS)
id_value_txt	char(20)	ID value

Id_type: The descriptions for the id_type_cde's

id_type_cde	char(2)	ID type (i.e. WN, RF. SS)
dsc	char(20)	Description of codes

Scenario: Used to store descriptive information regarding saved output.

scenario_id	int	ID for stored scenario
dsc	char(20)	Description of scenario
work_dte	char(10)	Scenario date
run_tms	smalldatetime	Time scenario was run
status_cde	char(2)	Code for Scenario type (ie. baseline, what-if)
signoff_id	char(8)	ID of responsible party for scenario

Resource_Assignment: Output for the Gantt Chart.

Scenario_id (FK)	int	ID for stored scenario
resource_id (FK)	int	Resource (person, machine) ID
location_task_id (FK)	int	Location Task identifier
start_time	smallint	Start Time
end_time	smallint	End Time

Period: A list of the time periods (i.e. 1 - 96 for 15 minute scheduling)

period_id	tinyint	Time period ID
start_tim	smallint	Starting time of period
end_tim	smallint	Ending time of period

Unit_Conversion: The conversion table for one unit of measure to another.

From_unit_cde	int	ID of unit of measure
to_unit_cde	int	ID of unit of measure
conversion_value	real	Conversion value of unit of measure from 'from_unit_cde' to 'to_unit_cde'

Exception: Used to store date specific exceptions, such as meetings or vacation.

resource_id (FK)	int	Resource (person, machine) ID
dte	smalldatetime	Effective date of exception
start_tim	smallint	Start time of exception
type_cde(FK)	int	Type of exception (i.e., meeting, vacation)
end_tim	smallint	End time of exception

Exception_Type: Used to store description of the exception type_cde.

Type_cde	int	Type of exception (i.e., meeting, vacation)
dsc	char(20)	Description of exception type

Subordinate: Used to record the supervisor of a task, type or resource.

Resource_id(FK)	int	Supervisor ID
subordinate_id_type_cde(FK)	int	Code (i.e., task, resource, resource_type)
subordinate_id	int	Subordinate ID

Subordinate_Type: Used to store the list of acceptable supervisor codes.

Subordinate_id_type_cde	int	Supervisor of code (i.e., task, resource, resource_type)
dsc	char(20)	Description of code

Constraints_type: A list of the constraint types's (i.e. ratio constraint, min/max constraint)

type_cde	int	Constraint type cde
dsc	char(20)	Description of constraint

Constraints: Used to store date specific exceptions, such as meetings or vacation.

constraint_id	int	Unique identifier of constraint
location_nbr	char(2)	Location identifier. Used to identify the pharmacy
type_cde(FK)	int	Constraint type cde

Constraints_Value_Type: A list of the descriptions for the constraint values (i.e. resource_id, ratio, location_task_id, minutes)

value_type_cde	int	Constraint value id
dsc	char(20)	Description of constraint number

Constraints_value: A list of the constraint typess (i.e. ratio constraint, min/max constraint)

constraint_id(FK)	int	Unique identifier of constraint
seq_nbr	smallint	Sequence number of constraint value
value_type_cde(FK)	int	Constraint value id
constraint_value	int	Value of constraint referenced by value_type_cde

Result_Queues: A list of the queues and processed amounts at each location for a time period

scenario_id(FK)	int	ID for stored scenario
location_task_id	int	Location Task Identifier
start_time	smallint	Time when queue and processed amount are calculated
queue	int	Queue amount
cum_processed	int	Cumulative amount processed